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Fig.1

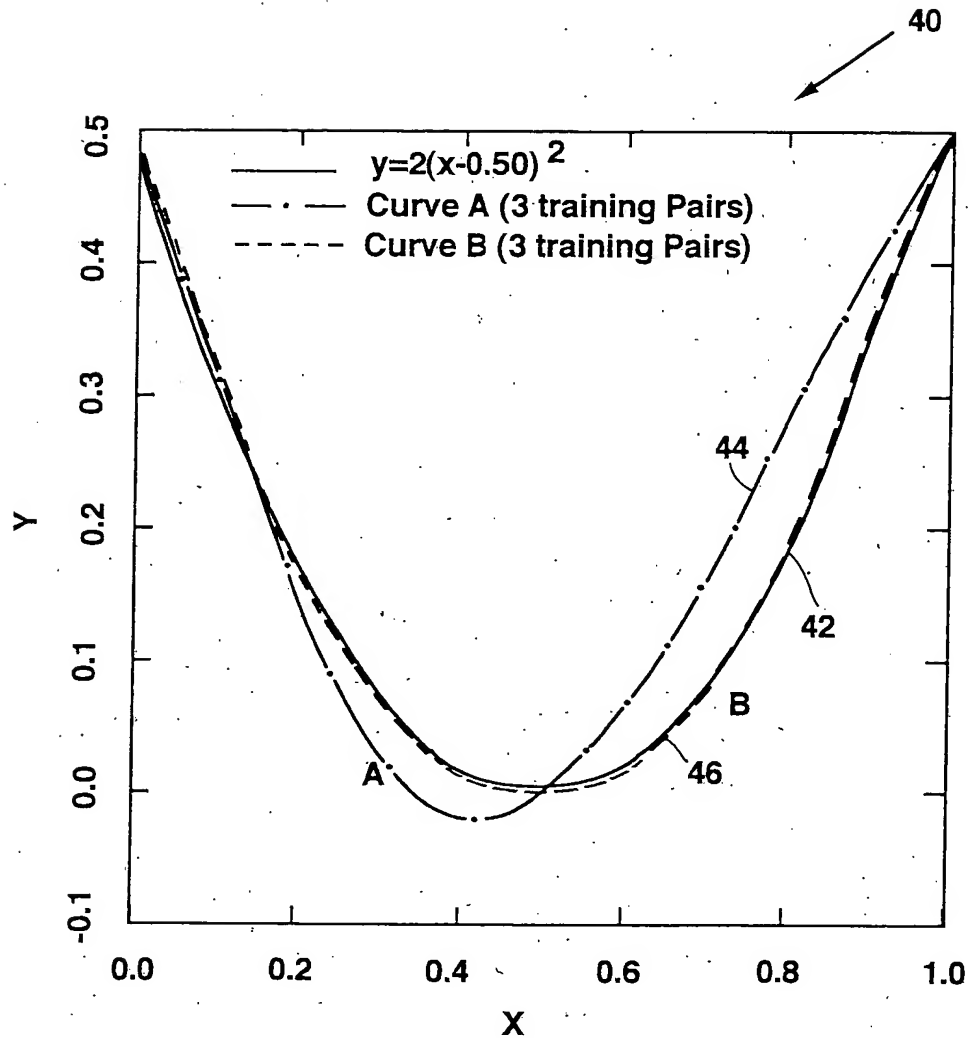


Fig. 2

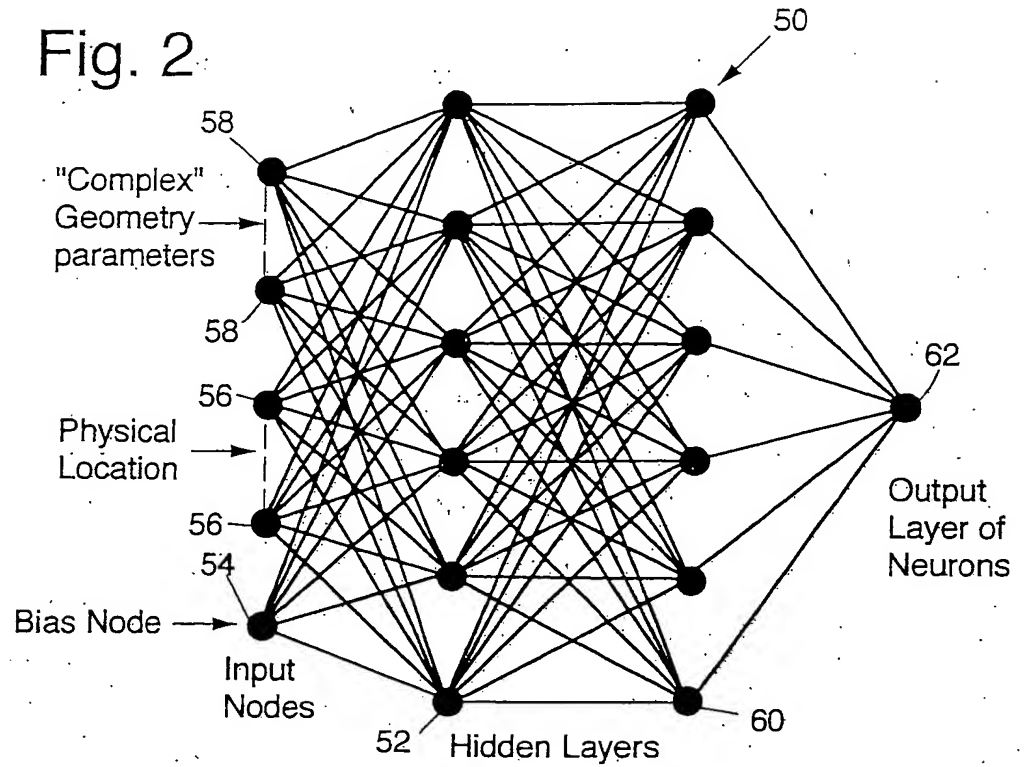


Fig. 3A

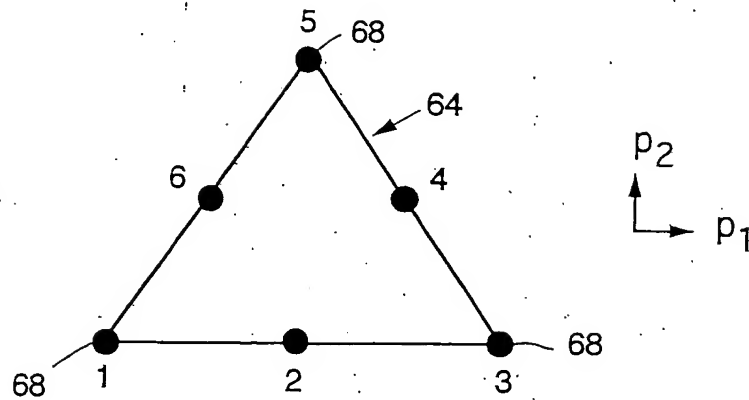


Fig. 3B

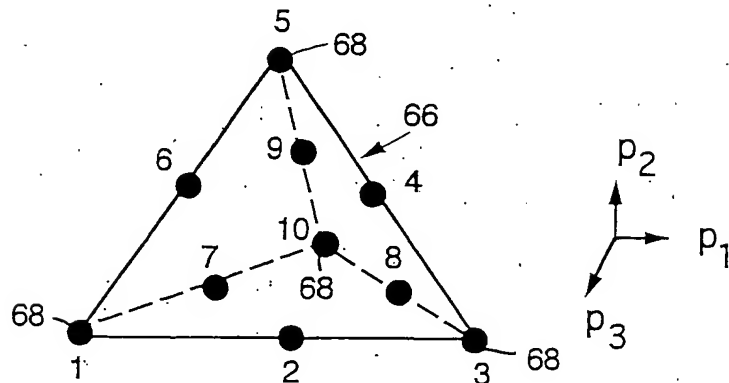
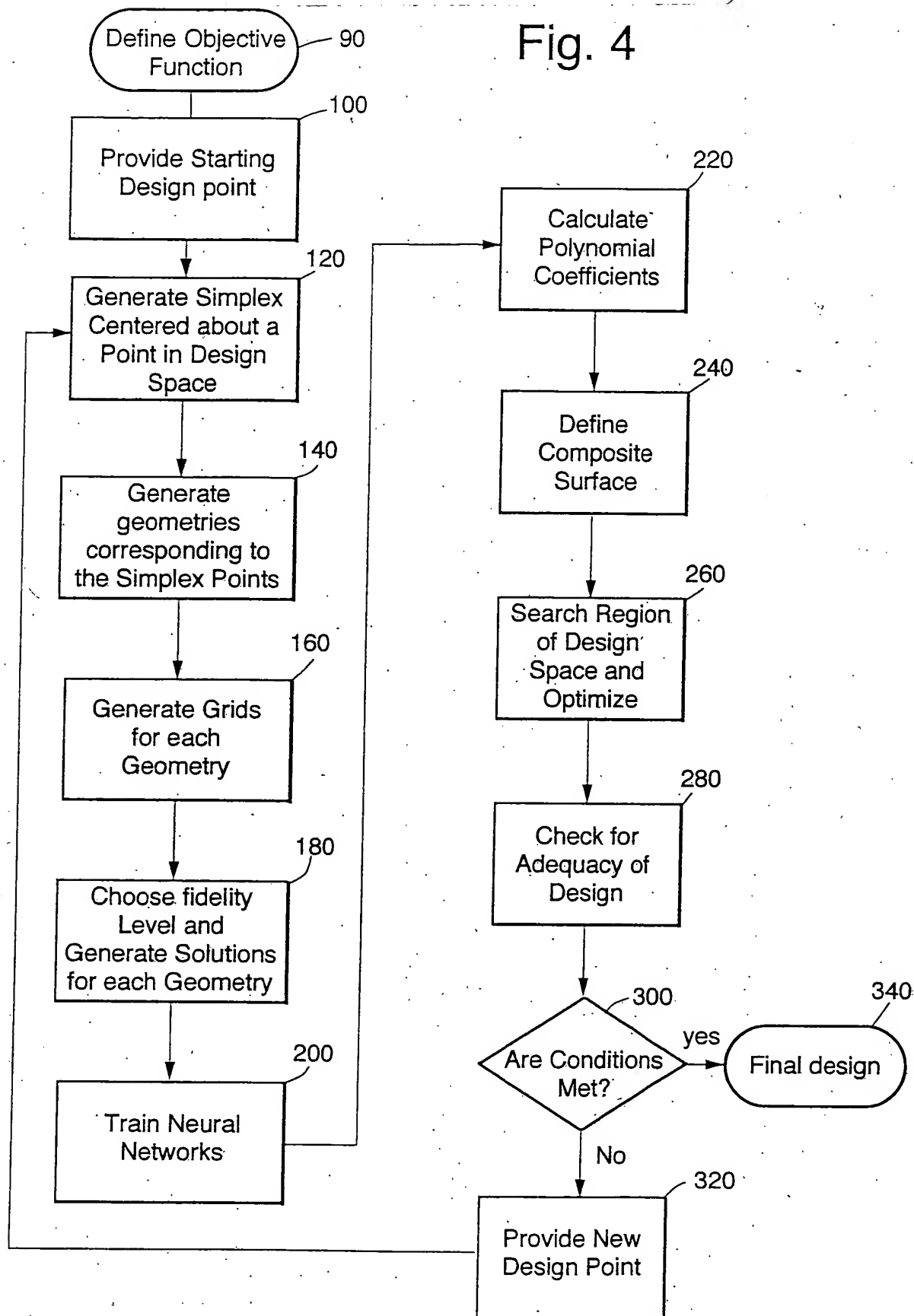
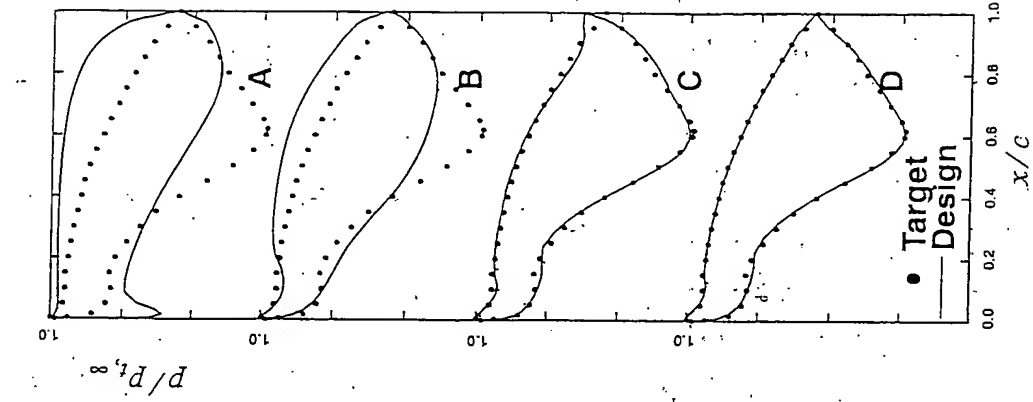


Fig. 4





- A. Initial Airfoil Design
- B. Midway through Euler Optimization Process
- C. Start of Navier-Stokes Optimization Process
- D. Final Optimized Design

Fig. 5B

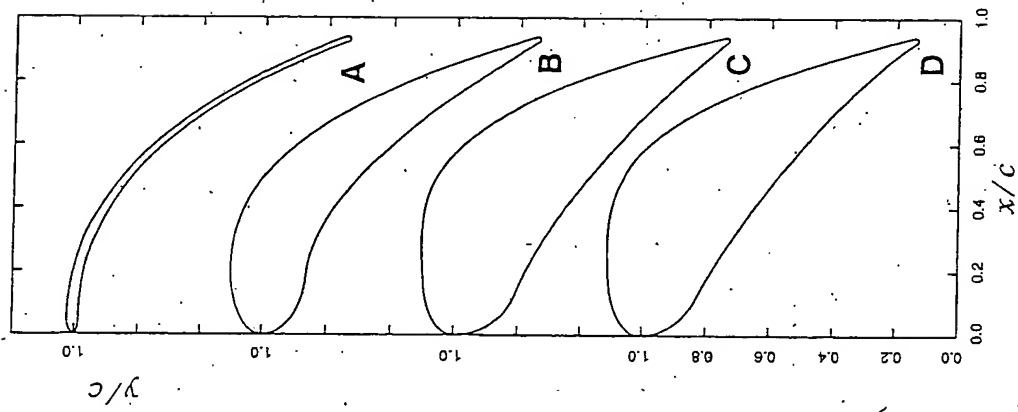
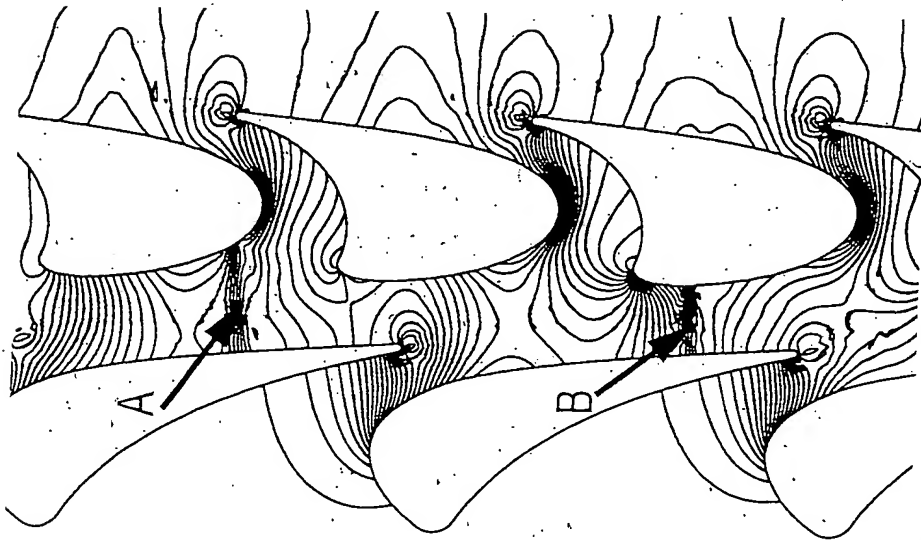
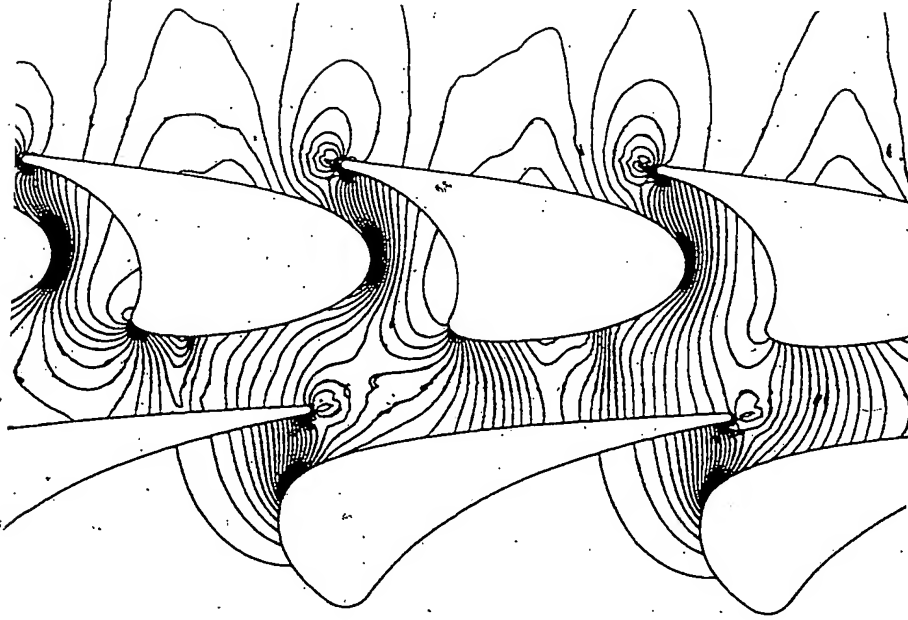


Fig. 5A



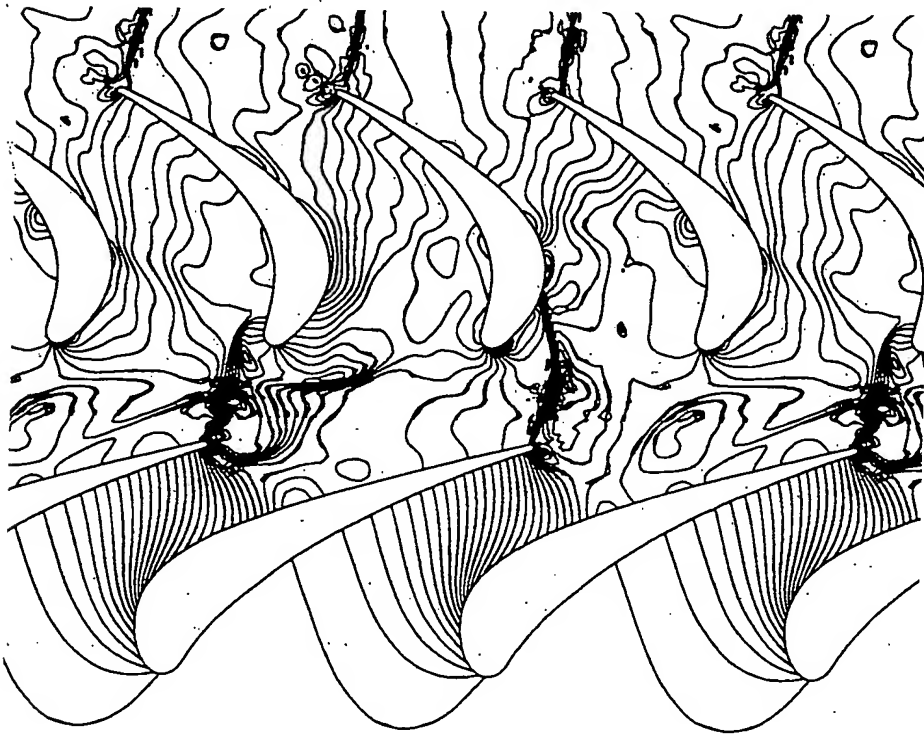
Reference Design

Fig. 6A



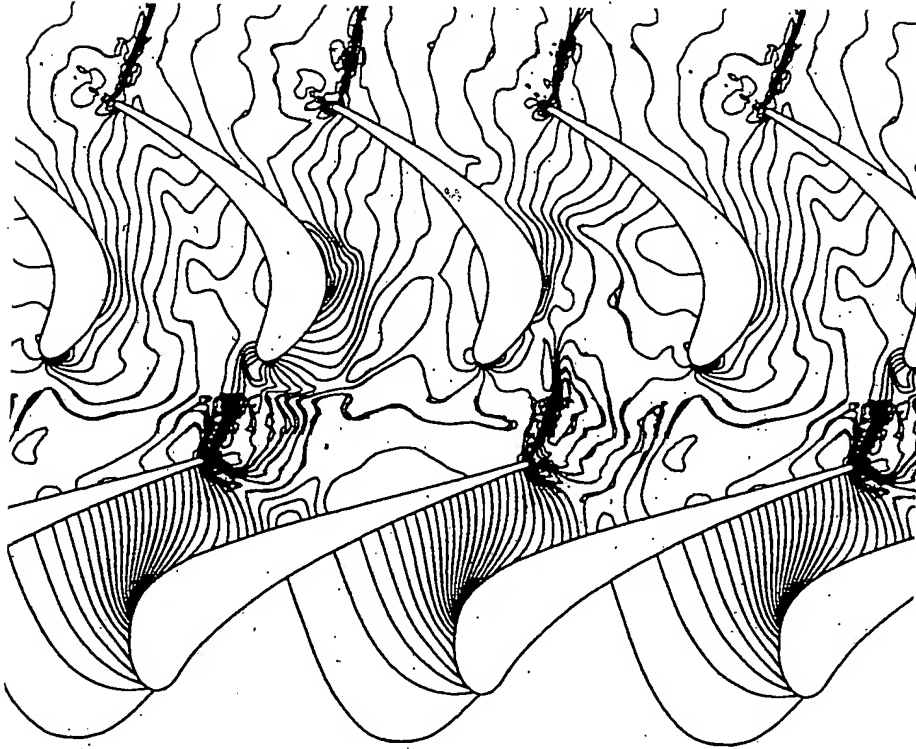
Optimized Design

Fig. 6B



Reference Design

Fig. 7A



Optimized Design

Fig. 7B

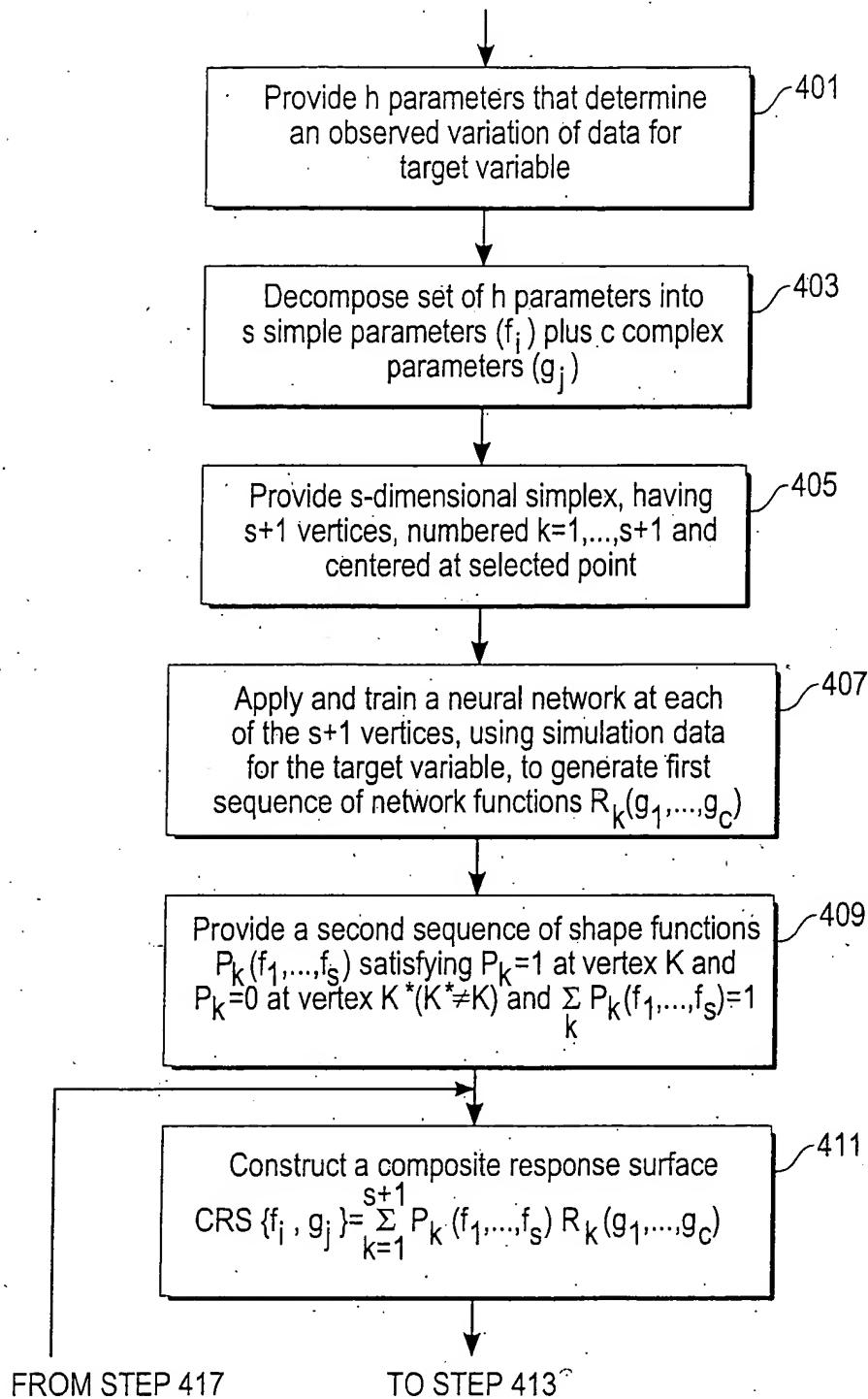


Fig. 8A

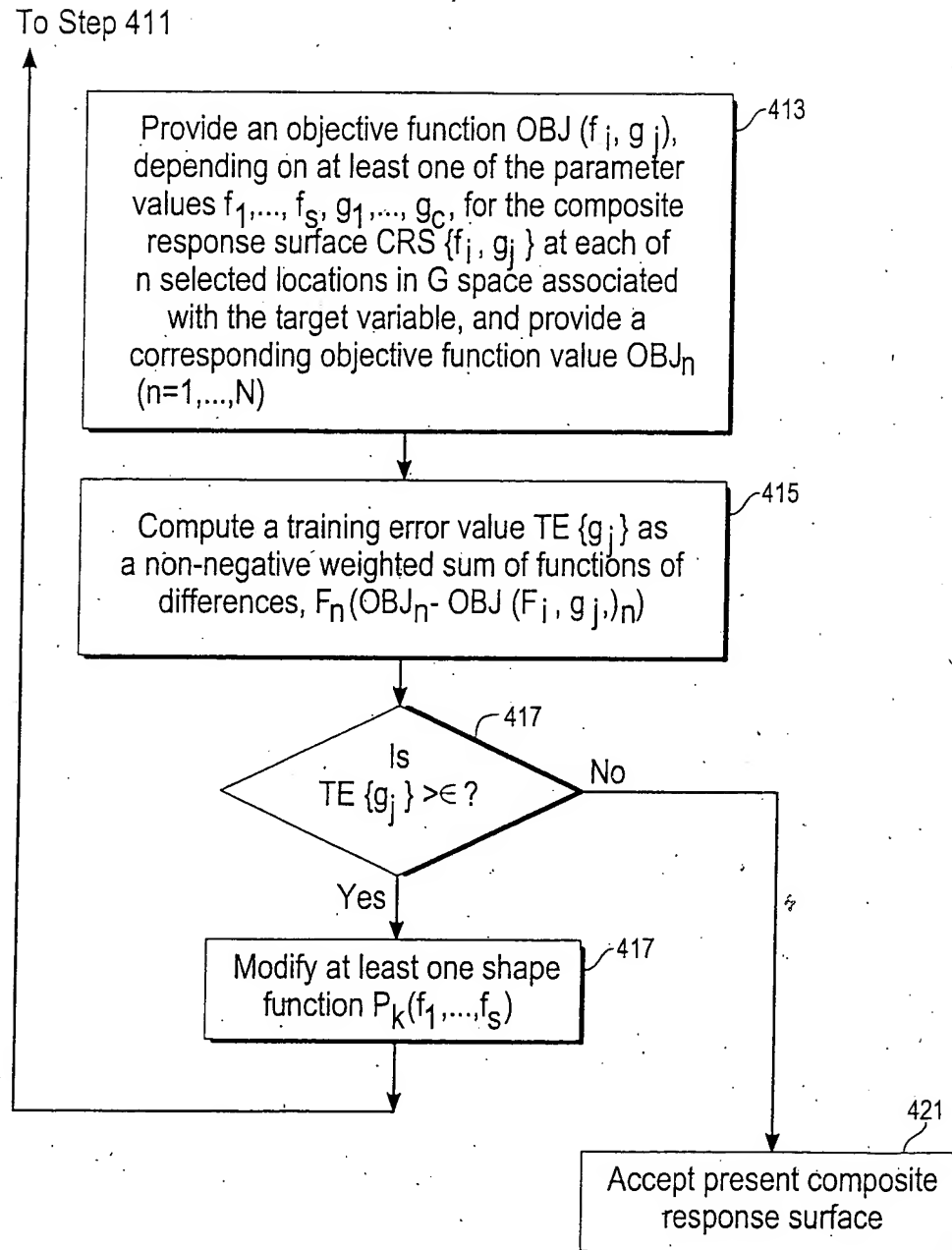


Fig. 8B